

SPECTRAL KLAR 565 ACRYLIC CLEARCOAT

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1. Product identifier

NOVAKRYL 510 ACRYLIC CLEARCOAT

1.2. Relevant identified uses of the substance or mixture and uses advised against

Acrylic clearcoat (component A) for application with the use of a spray gun. For professional use in car refinishing.

1.3. Data of the supplier Safety Data Sheet

NOVOL Sp. z o.o.
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Person responsible for the Safety Data Sheet

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1.4. Emergency telephone number

+48 61 810-99-09 (from 7.00 to 15.00)

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture was classified as dangerous pursuant to current regulations - see section 15.

Classification 1272/2008/WE:

Acute toxicity (dermal), Hazard Category 4 (Acute Tox. 4) Harmful if inhaled. Sensitisation — Skin, category 1 (Skin Sens. 1). May cause an allergic skin reaction. Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis (STOT SE 3). May cause drowsiness or dizziness. Hazardous to the aquatic environment — Chronic Hazard, Category 3 (Aquatic Chronic 3). Harmful to aquatic life with long lasting effects. Liquid, flammable substances, category 2 (Flam. Liq. 2). Highly flammable liquid and vapour.

Classification 1999/45/EC:

Irritant. May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Highly flammable product. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements:

Contains:

Pictograms:

Isobutyl methyl ketone



Pictograms:

Danger.

H225
H332
H317
H336
H412
EUH066

Highly flammable liquid and vapour.
Harmful if inhaled.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.
Repeated exposure may cause skin dryness or cracking.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261

Avoid breathing vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P312

Call a doctor if you feel unwell.

2.3. Other hazards

No available data.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Product identification

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS cont.

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Butyl acetate	EC: 204-658-1 CAS: 123-86-4 Index no.: 607-025-00-1 Registration no.: 01-2119485493-29-XXXX	Classification 67/548/EEC: R10, R66-67 Classification 1272/2008/EC: Flam. Liq. 3; H226; STOT SE 3; H336 EUH066	20-30
Methyl amyl ketone	WE: 203-767-1 CAS: 110-43-0 Index no.: 606-024-00-3 Registration no.: 01-2119902391-49-XXXX	Classification 67/548/EWG: R10 Xn; R20/22 Classification 1272/2008/WE: Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H302	5-13
Isobutyl methyl ketone	WE: 203-550-1 CAS: 108-10-1 Index no.: 606-004-00-4 Registration no.: 01-2119473980-30-XXXX	Classification 67/548/EWG: F; R11 Xn; R20 Xi; R36/37 R66 Classification 1272/2008/WE: Flam. Liq. 2; H225 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 EUH 066	5-8
Hydrocarbons, C9, aromatics	WE: 918-668-5 CAS: -- Index no.: not applicable Registration no.: 01-2119455851-35-XXXX	Classification 67/548/EWG: R10 Xn; R65 Xi; R37 N; R51/53 R66-67 Classification 1272/2008/WE: Flam. Liq. 3; H226 STOT SE 3; H335; H336 Asp. Tox. 1; H304 Aquatic Chronic 2 H411 EUH 066	<3
pentaerythritol tetrakis(3-mercaptopropionate)	WE: 231-472-8 CAS: 7575-23-7 Index no.: -- Registration no.: --	Classification 67/548/EWG: Xn; R20/22 R43 N; R50/53 Classification 1272/2008/WE: Acute Tox. 4; H332 Acute Tox. 4; H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Acute 1, H410	<1.8
reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	WE: 400-830-7 CAS: 104810-48-2+104810-47-1+ 25322-68-3 Index no.: 607-176-00-30 Registration no.: 01-2119472279-28-XXXX	Classification 67/548/EWG: Xi, R43 N, R51/53 Classification 1272/2008/WE: Skin Sens. 1; H317 Aquatic Chronic 2; H411	<1.6

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS cont.

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	WE: 255-437-1 CAS: 41556-26-7 Index no.: -- Registration no.: --	Classification 67/548/EWG Xi, N R: 43, R50/53 Classification 1272/2008/WE: Skin Sens. 1; H317 Aquatic Chronic 1; H410	<0.7
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	WE: 280-060-4 CAS: 82919-37-7 Index no.: -- Registration no.: --	Classification 67/548/EWG Xi, R: 43, N, R50/53 Classification 1272/2008/WE: Skin Sens. 1; H317 Aquatic Chronic 1; H410	<0.25
dibutyltin dilaurate	WE: 201-039-8 CAS: 77-58-7 Index no.: -- Registration no.: 01-2119496068-27-XXXX	Classification 67/548/EWG: T, Repro. Kat.2 R60 Repro. Kat 2 R61 Mutag. Kat.3 R68 R48/25 Xn, R22 Xi, R36 N, R50/53 Classification 1272/2008/WE: Skin Corr. 1C, H314 Eye dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 STOT Rep. 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	<0.11

Full text of the phrases identifying the types of hazards and R phrases is provided in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

See section 11 of the Safety Data Sheet.

Inhalation:

Take the victim outside into fresh air, ensure quiet surrounding; in case of no breath, apply artificial respiration. Call a doctor.

Skin:

Take off contaminated clothing. Rinse contaminated skin with plenty of lukewarm water for about 15 minutes. If irritation persists, consult a doctor.

Eyes:

Rinse immediately with plenty of lukewarm water for about 15 minutes, avoid strong water jet-risk of cornea damage, consult a doctor.

Alimentary tract:

Do not provoke vomiting (choking risk). Rinse mouth with water. If conscious, administer 1-2 glasses of warm water. Call a doctor.

Person giving first aid should wear medical gloves.

4.2. Most important symptoms and effects, both acute and delayed

Vapours might cause drowsiness and vertigo. Repeated exposure might cause skin dryness or rupture.

4.3. Indications of any immediate medical attention and special treatment needed

Special measures allowing for specialist and immediate aid should be available in the place of work.

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Powder, foam resistant to alcohols, carbon dioxide, water mist.

5.2. Special hazards arising from the substance or mixture

Fire may cause generation of carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Fire-fighting teams should wear self-contained breathing apparatus and light protective clothing. Cool adjacent tanks by spraying water at a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For persons not being the members of aid giving staff:

Eliminate sources of ignition. Ensure sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protection measures - section 8 of the Safety Data Sheet.

For persons giving aid:

Persons giving aid should wear protective clothing made of coated, impregnated fabric, protective gloves (viton), tight protective glasses and breathing apparatus: gas mask with A type absorber.

6.2. Environmental precautions

Prevent leakage to the sewage system, surface waters, underground waters and soil.

6.3. Methods and materials for containment and cleaning up

Stop the leakage (close the liquid inflow, seal), place damaged container in an emergency container, remove the liquid mechanically and place it in an emergency container. In case of large leakage, embank the area. In case of small amounts, collect with the use of a binding agent (e.g. mica, diatomaceous earth, sand).

6.4. Reference to other sections

Personal protection measures - see section 8 of the Safety Data Sheet.

Disposal considerations - see section 13 of the Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat and fire sources. Prevent leakage to the sewage system, surface waters, underground waters and soil. Use in well ventilated rooms. Do not smoke. Do not inhale fumes. Avoid contact with skin and eyes. Take precaution measures against electrostatic discharge. Use personal protection measures - section 8 of the Safety Data Sheet.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly sealed, original containers. Do not store near large amounts of organic peroxides and other strong oxidants. Take precaution measures against electrostatic discharge. Store in cool, well ventilated rooms. Protect from low temperatures, the influence of sunrays and heat sources.

7.3. Special end use(s)

Acrylic clearcoat (component A) for application with a spray gun. For professional use in car refinish taking into consideration the information included in subsections 7.1 and 7.2.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Xylene CAS 1330-20-7 according to:

- TRGS 900: MAK: 100ppm, MAK: 440 mg/m³, 2(II), DFG, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m³, 220mg/m³, STEL 100ppm, 441 mg/m³, Sk, BMGV

Butyl acetate CAS 123-86-4 according to:

- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 150 ppm, 724 mg/m³, STEL 200ppm, 966 mg/m³

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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Methyl amyl ketone CAS 110-43-0 according to:

- TRGS 900: MAK: 238 mg/m³, 2(l),DFG
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m³, 237mg/m³, STEL 100ppm, 475 mg/m³, Sk

8.2. Exposure control

Respiratory tract protection:

Gas mask with A type absorber (EN 141).

Hand protection:

Protective gloves PN-EN 374-3 (viton, 0.7 mm thick, penetration time > 480 min, nitrile rubber, 0,4 mm thick, penetration time > 30 min)

Eye protection:

Tight protective glasses.

Skin protection:

Proper protective clothing (coated impregnated fabrics).

Workplace:

Fixed fume extraction and general ventilation.

Environmental exposure control:

Prevent leakage to the sewage system, surface waters, underground waters and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	strong, powerful
Odour threshold	No data
pH	not applicable
Melting/freezing point	not applicable
Boiling point	114-117°C
Flash point	14°C
Autoignition point	about 370°C
Breakdown point	not specified
Evaporation rate	not specified
Flammability (solid, gas)	not applicable
Explosion limits	% bottom: 1.3 vol% top: 8.0 vol% (Isobutyl methyl ketone)
Vapour pressure	21 hPa (20°C)
Vapour density (with regard to air)	3.5 (Isobutyl methyl ketone)
Density	about 1.0 g/cm ³ (20°C)
Solubility (in water)	poor
N-octanol/water division ratio	1.31 (Isobutyl methyl ketone)
Viscosity	23 s
Explosive properties	not applicable
Oxidizing properties	not applicable

9.2 Other informations

No available data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive under normal conditions.

10.2. Chemical stability

The product remains stable under normal conditions.

10.3. Possibility of hazardous reactions

Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.

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SECTION 10: STABILITY AND REACTIVITY

10.4. Conditions to be avoided

Flammable product. Avoid contact with strongly oxidizing agents, peroxides, strong acids and bases. Avoid generation and accumulation of static electricity. Protect from the influence of sunrays and heat sources.

10.5. Incompatible materials

Avoid contact with large amounts of organic peroxides, strong acids and bases as well as other strong oxidants.

10.6. Hazardous decomposition products

Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No experimental data available on the preparation. Evaluation was performed based on the data on dangerous ingredients included in the preparation.

a) Acute toxicity

Butyl acetate	LD ₅₀ (rat, ingestion)	10768 mg/kg
	LC ₅₀ (rat, inhalation)	390 ppm/4h
	LD ₅₀ (rabbit, skin)	17600 mg/kg
Methyl amyl ketone	LD ₅₀ (rat, ingestion)	1670 mg/kg
	LC ₅₀ (rat, inhalation)	2000-4000 ppm/4h
isobutyl methyl ketone	LD ₅₀ (rat, ingestion)	> 2000 mg/kg
	LC ₅₀ (rat, inhalation)	2-20 mg/l/4h

b) Irritating effect

Skin: irritating to skin and mucous membrane

Eyes: irritating effect

c) Caustic effect

The mixture has not been classified as caustic. No available data confirming the hazard class.

d) Allergenic effects

May cause sensitization by skin contact.

e) Toxicity for repeated exposure

Repeated exposure might cause skin dryness or rupture. Vapours may cause drowsiness and dizziness.

f) Cancerogenity

The mixture has not been classified as cancerogenic. No available data confirming the hazard class.

g) Mutagenity

The mixture has not been classified as mutagenic. No available data confirming the hazard class.

h) Harmful effect on reproduction

The mixture has not been classified as having any harmful effect on reproduction. No available data confirming the hazard class.

Exposure methods:

Inhalation: Harmful in case of inhalation.

Skin: May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking

Eyes: irritating effect.

If swallowed, the substance may cause irritation of the alimentary tract, nausea, vomiting and diarrhoea.

Poisoning symptoms:

Headache and vertigo, fatigue, decreased muscle power, drowsiness and, in exceptional instances, loss of consciousness.

Vapours might cause drowsiness and vertigo. Repeated exposure might cause skin dryness or rupture.

SECTION 12: ECOLOGICAL INFORMATION

No experimental data available on the preparation. Evaluation was performed based on the data on dangerous ingredients included in the preparation.

12.1. Toxicity

Methyl amyl ketone	Toxicity for fish (Pimephales promeles): LC50 131 mg/l/96h
	Number in the catalogue of water hazardous substances: 3726
	Water hazard class: 1

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Butyl acetate	Number in the catalogue of water hazardous substances: 42 Water hazard class: 1
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Toxicity for fish (Lepomis sp.): LC50 0.97 mg/l/96h Daphnia magna /EC50 (24h) 20 mg/l
Dibutyltin dilaurate	Toxicity for fish: LC50 2 mg/l Daphnia magna (rozwiłitka wielka)/EC50 0.66 mg/l

12.2. Persistence and degradability

Butyl acetate	Biodegradability: 98% (closed bottle test)
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12.3. Bioaccumulative potential

Butyl acetate	Biodegradation coefficient: BCF=3.1
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12.4. Mobility in soil

Product very poorly soluble in water.

12.5. Results of PBT and vPvB assessment

No available data.

12.6. Other adverse effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The product must be disposed of in compliance with proper local and statutory regulations with regard to waste - see point 15.
The product should be disposed with entities which are authorised to conduct activity in the area of collecting, recycling or utilization of waste.

Product remains:

Do not dispose the product into the sewage system. Do not store with communal waste. Remove the remains of the mixture carefully and harden with the use of the proper B component, (waste) hardener included in the set. The hardened product is not harmful waste.

CAUTION: harden the remains in small portions and keep them away from flammable products. High amounts of heat are released during chemical reaction!

Contaminated container:

A container containing unhardened remains of the product is harmful waste. Do not store with communal waste. The contaminated container should be disposed with entities which are authorized to collection, recover or disposal.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMO/IMDG	IATA-DGR
14.1. UN number	1866	1866	1866
14.2. UN proper shipping name	RESIN SOLUTION, flammable		
14.3. Transport hazard class(es)	3	3	3
14.4. Packaging group	II	II	II
14.5. Environmental hazards	none	none	none
14.6. Special precautions for user	Do not transport together with materials of class 1 (excluding materials of class 1.4S) and some materials of classes 4.1 and 5.2. During transport, avoid direct contact with materials of classes 5.1 and 5.2. Do not use an open flame and do not smoke.		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code	Not applicable.		

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SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 67/548/EWG(2006/121/WE)
Directive 91/155/EWG (2001/58/WE)
Directive 1999/45/EC (2006/8/WE)
REACH - Regulation 2006/1907/WE
CLP - Regulation 1272/2008/WE

15.2. Chemical safety assessment

Not performed

SECTION 16: OTHER INFORMATION

Full text of the phrases identifying the types of hazards and R phrases mentioned in sections 2-15

R10 Flammable
R11 Highly flammable.
R20/22 Harmful by inhalation and if swallowed.
R20 Harmful by inhalation.
R36 Irritating to eyes.
R36/37 Irritating to eyes and respiratory system
R65 Harmful: may cause lung damage if swallowed.
R37 Irritating to respiratory system.
R43 May cause sensitization by skin contact.
R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R60 May impair fertility.
R61 May cause harm to the unborn child
R68 Possible risk of irreversible effects.
R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
Flam.Liq.2/3 Liquid, flammable substances, category 2/3
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
H304 May be fatal if swallowed and enters airways.
STOT SE 3 Specific target organ toxicity— single exposure, category 3
H335 May cause respiratory irritation.
H336 Might cause drowsiness or or dizziness.
Acute Tox. 4. Acute toxicity, category 4
H332 Harmful if inhaled.
H302 Harmful if swallowed.
Skin Sens. 1 Sensitisation — Skin, Hazard Category 1
H317 may cause an allergic reaction.
Eye Dam. 1 Serious eye damage/eye irritation, Category 1
H318 Causes serious eye damage.
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2
H319 causes serious eye irritation.
Skin Corr. 1C Skin corrosion/irritation, Category 1C
H314 Causes severe skin burns and eye damage.
Muta. 2 Germ cell mutagenicity, Category 2
H341 Suspected of causing genetic defects.
Repr. 1B Reproductive toxicity, Hazard Category 1B
H360FD May damage fertility. May damage the unborn child.
STOT SE 1 Specific target organ toxicity — single exposure, Category 1
H370 Causes damage to organs.
STOT SE 2 Specific target organ toxicity — Single exposure, Hazard Category 2
H371 May cause damage to organs.
STOT Rep. 1 Specific target organ toxicity — Repeated exposure, Category 1
H372 Causes damage to organs through prolonged or repeated exposure
STOT RE 2 Specific target organ toxicity — Repeated exposure, Hazard Category 2
H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1
H400 Very toxic to aquatic life.
Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1
H410 Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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SECTION 16: OTHER INFORMATION

Explanation of the abbreviations and acronyms used in the Safety Data Sheet

CAS no – numerical symbol ascribed to a chemical substance by the American organization, Chemical Abstracts Service (CAS).

EC no. – a number ascribed to a chemical substance in the European List of Notified Chemical Substances (ELINCS) or a number in the European Inventory of Existing Chemical Substances mention in "No-longer polymers" publication (EINECS)

MPC – maximum permissible concentration of health hazardous substances in the work place

MPIC – maximum permissible instantaneous concentration

MPCC - maximum permissible ceiling concentration

PCB - permissible concentration in biological material

UN number - four-digit identification number of a substance, preparation or product pursuant to UN model regulations

ADR – European agreement on international road transport of hazardous materials

IMO – International Marine Organization

RID – Regulations for international rail transport of hazardous materials

IMDG-Code – International marine code for hazardous materials

ICAO /IATA – Technical Instructions for Safe Air Transport of Hazardous Materials

The information is based on our current knowledge. This document shall not constitute warranty for product characteristics.

Other sources of information

ESIS European Chemical Substances Information System

TOXNET Toxicology Data Network

IUCLID International Uniform Chemical Information Database

Changes: General update

Trainings:

With regard to handling, health and safety while working with hazardous substances and mixtures.

With regard to transport of hazardous goods pursuant to the requirements of ADR regulations.

Issued by: NOVOL Sp. z o.o.

Information available from: Research and Development Laboratory, tel. +48 61 810 99 09.